

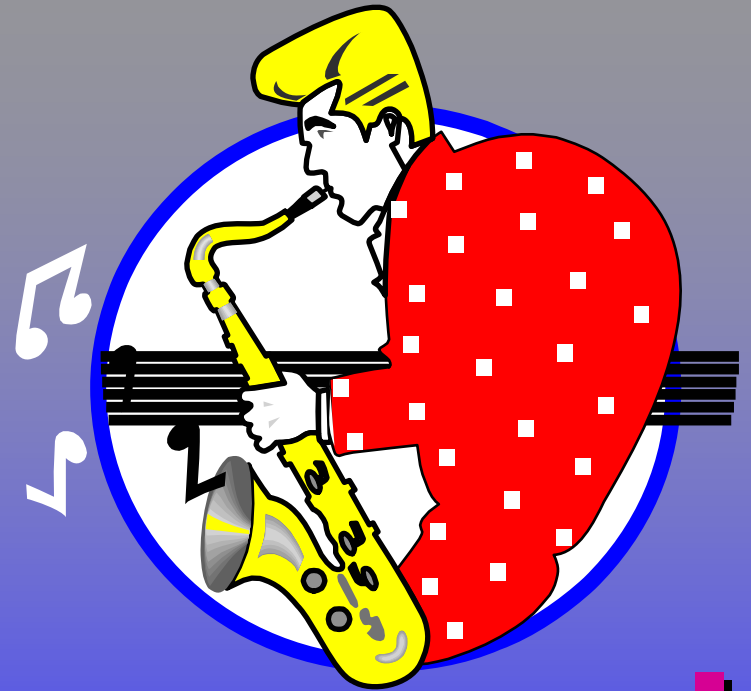
Navigating Part 192



Types of Regulatory Language in 192



No Smoking



Specification

VS.

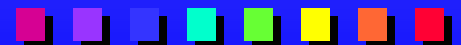
Performance



Specification Regulations

Advantages:

- ◆ Easy to Determine Compliance
- ◆ Easy to Determine a Course of Action
- ◆ Uniformity of Means of Compliance



Specification Regulations

Disadvantages



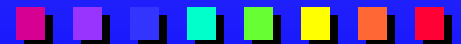
- ◆ Do Not Specify Level of Safety
- ◆ Do Not Allow for Variations in Environment, Operating, or Physical Characteristics
- ◆ May Require Unnecessary Cost
- ◆ Do Not Encourage Technology



Performance Regulations

Advantages

- ◆ Allow for Adaptation to an Individual Situation
- ◆ Encourage Development of New Equipment
- ◆ Allow Economical Solutions to Achieve the Desired Level of Safety
- ◆ Promote Safety and Not the Letter of the Law Compliance



Performance Regulations

Disadvantages

- ◆ Difficult to Determine Exact Compliance
- ◆ Some operators may not understand what is required, and attempts to comply may result in problems

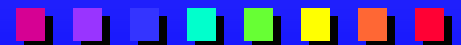


“Process” Regulations

New Initiative ~ IM, OQ, PA

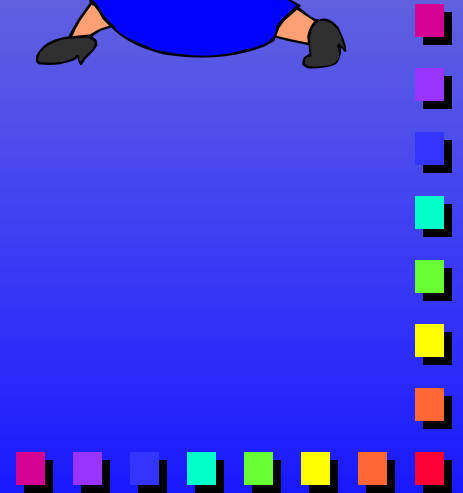
“Common Threads”

- ◆ Formal Written Program
- ◆ Management Commitment & Support
- ◆ Defined Roles & Responsibilities
- ◆ Use of Industry Standards
- ◆ Long-term vs. Short-term
- ◆ Monitoring Progress
- ◆ Periodic Formal Evaluation & Review
- ◆ Management of Change
- ◆ Continuous Improvement



Regulation Construction

- ◆ **Part** ~ 192 (193, 195, etc.)
- ◆ **Subpart (192)~** A thru O
- ◆ **Section** ~ 192.1 - 192.951
- ◆ **Paragraph** ~ a, b, c, d, etc.
- ◆ **Subparagraph** ~ 1, 2, 3, etc.



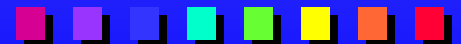
Retroactivity (192.13)

■ After March 12, 1971—

Pipelines must be designed, installed, constructed, initially inspected and tested per Part 192

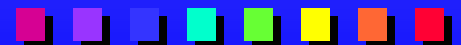
■ After November 12, 1970---

Pipeline replacements, relocations, or other changes must be per Part 192



Retroactivity (192.13)

- Subparts **A,M,I,L,K,O** apply to **all** pipelines **regardless** of installation date
- Subparts **B,C,D,E,F,G,H,J** apply to pipelines installed **after** March 12, 1971
- Subpart **N** is Operator Qualification



General ~ §192.13(c)

“Each operator shall maintain, modify as appropriate, and follow the plans, procedures, and programs that it is required to establish under this part.”



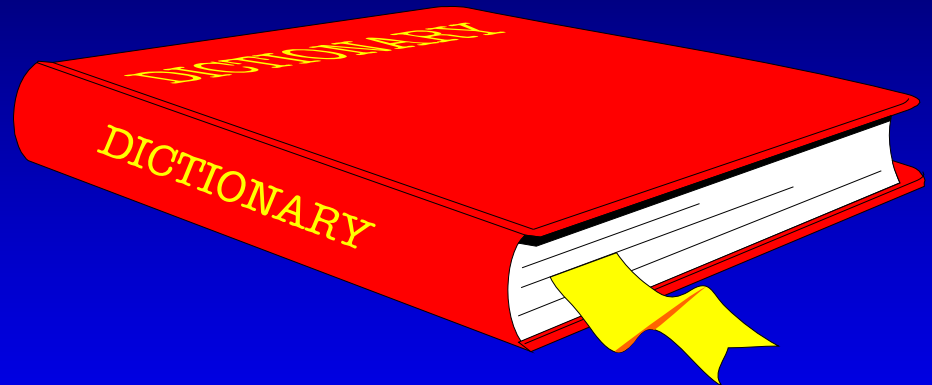
§192.7 ~ Incorporation by Reference

- (a) Any documents or portions thereof incorporated by reference in this part are included in this part as though set out in full. When only a portion of a document is referenced, the remainder is not incorporated in this part.





Key Definitions

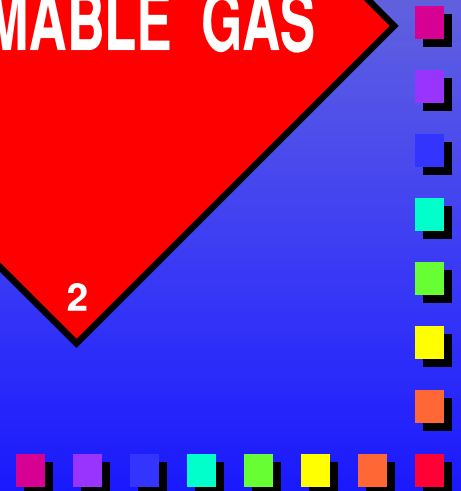
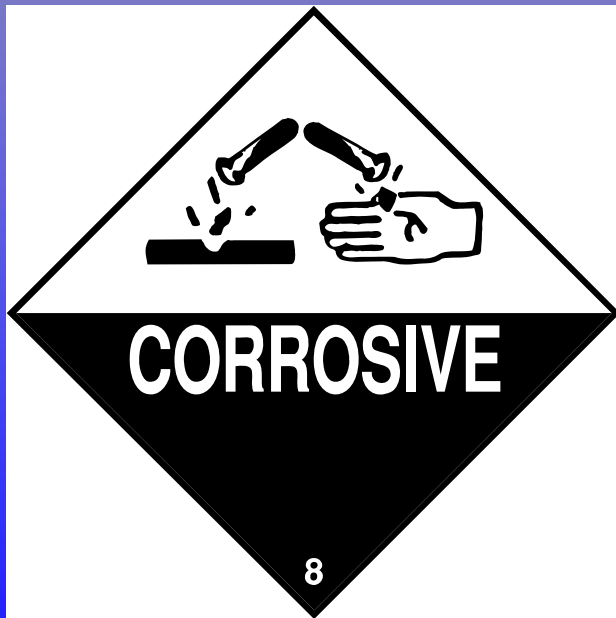


CFR 49 Part 192.3



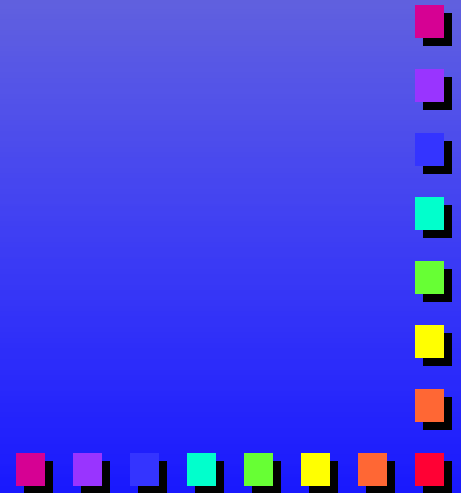
Gas

Natural Gas, Flammable Gas, or Gas which is Toxic or Corrosive.



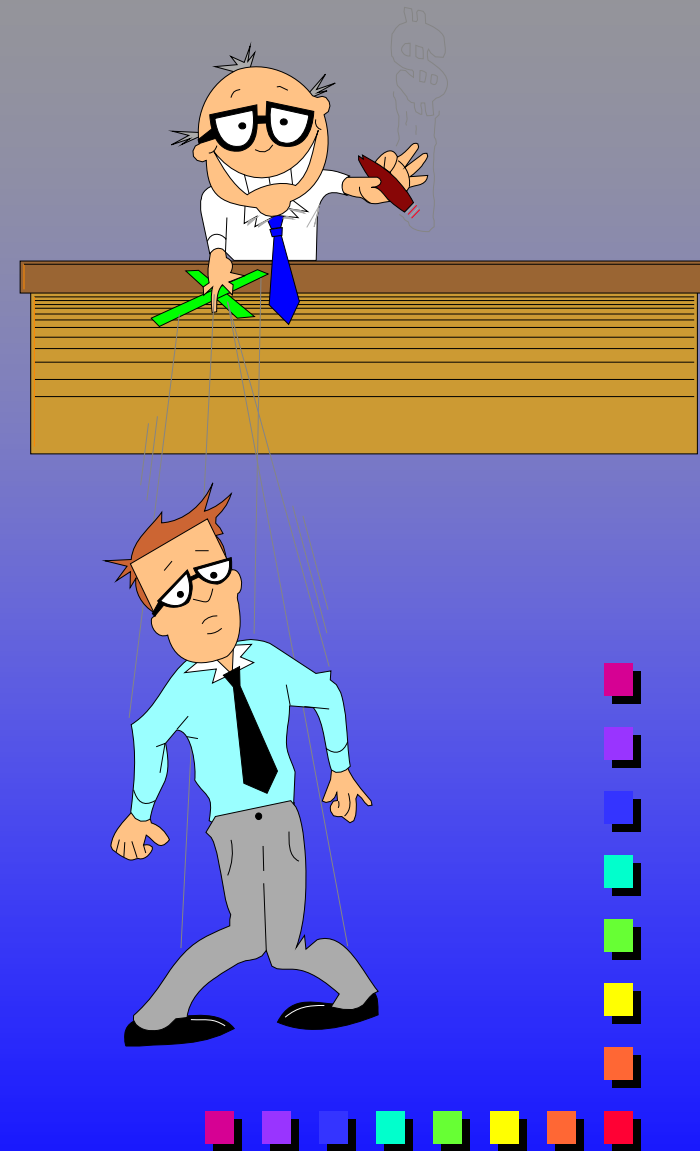
Transportation of Gas

The gathering, transmission, or distribution of gas by pipeline, or the storage of gas in or affecting interstate or foreign commerce.



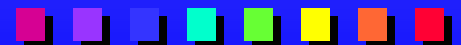
Person

Any individual, firm, joint venture, partnership, corporation, association, State, municipality, cooperative assoc., or joint stock assoc., and includes trustee, receiver, assignee, or personal representative thereof.



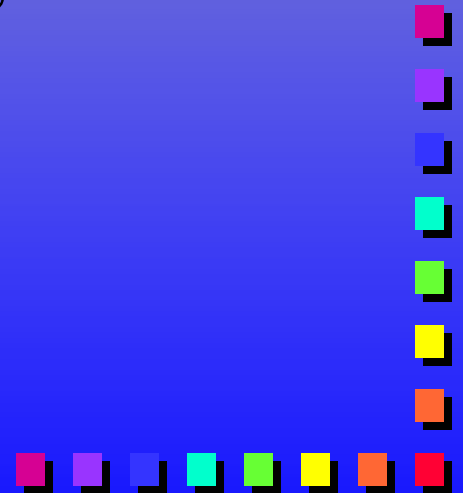
Operator

A person who engages in the transportation of gas.



Pipeline Facility

New and existing pipeline, rights-of-way, and any equipment, facility, or building used in the transportation of gas or in the treatment of gas during the course of transportation.



Pipeline or Pipeline System

All parts of those physical facilities through which gas moves in transportation not limited to:

- pipe
- valves
- compressor units
- metering stations
- regulator stations

Etc.



MASTER METER SYSTEM

A pipeline system for distributing gas within, but not limited to, a definable area such as:

- Mobile Home Park
- Apartment Complex
- Housing Project



Where the operator purchases metered gas from an outside source for resale.

MASTER METER SYSTEM

The pipeline system supplies
the ultimate



Gas can be purchased directly
through a meter, or by other
means ~ rent



Transmission Line

- means a pipeline, other than a gathering line, that:
 - Transports gas from a gathering line or storage facility to a distribution center, storage facility, or large volume customer that is not downstream from a distribution center;



Transmission Line (cont.)

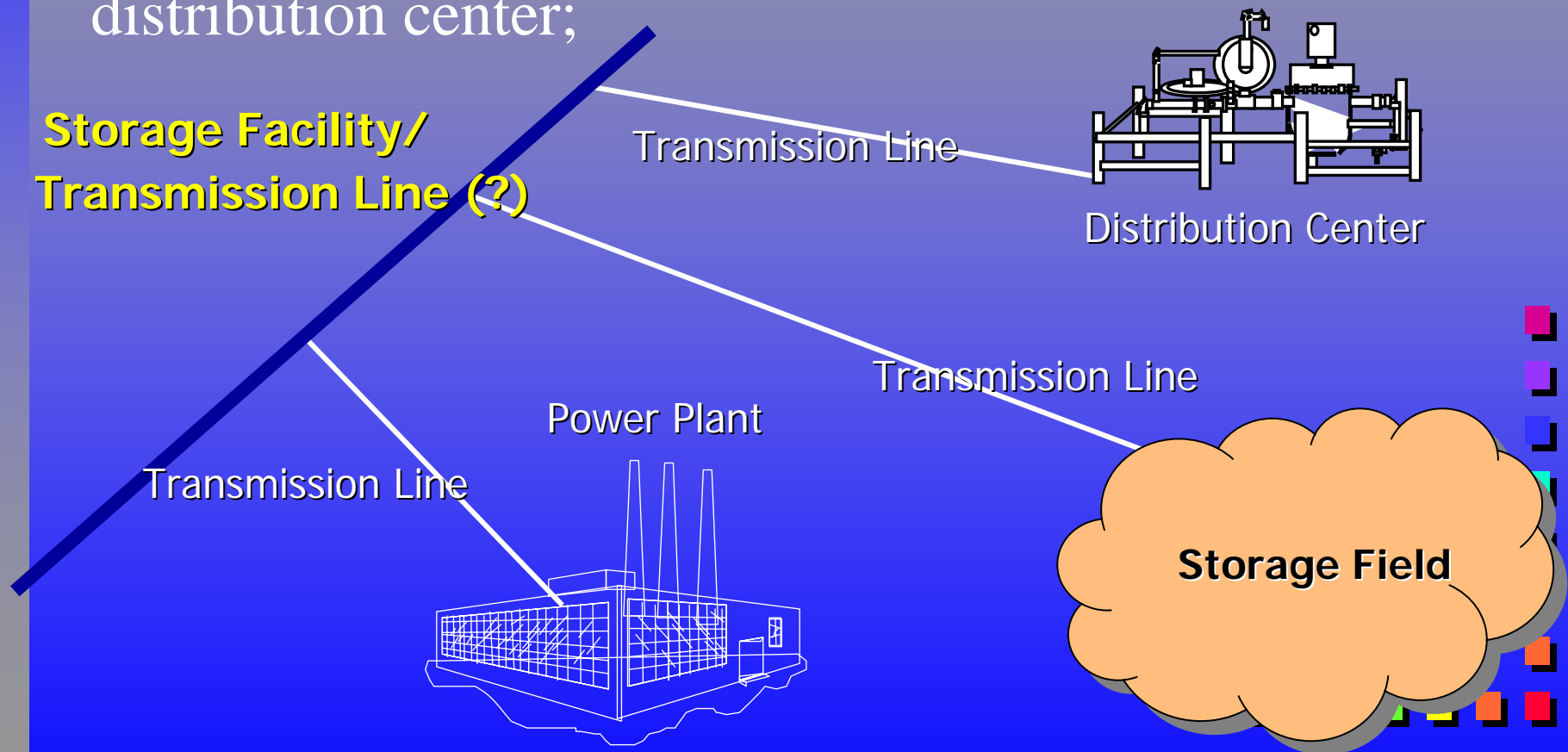
- Operates at a hoop stress of 20 percent or more of SMYS; or
- Transports gas within a storage field.



Transmission Line

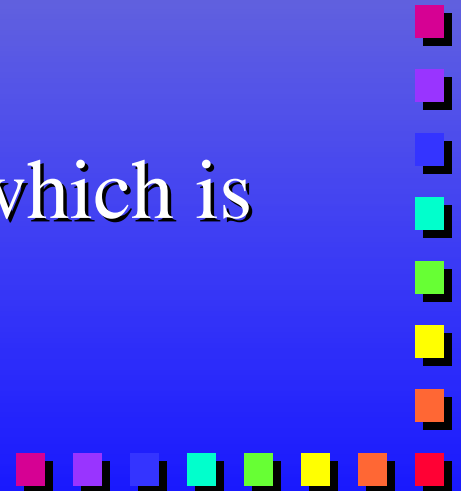
(a) Transports gas from a gathering line or storage facility to a distribution center, storage facility, or large volume customer that is not downstream from a distribution center;

**Storage Facility/
Transmission Line (?)**



Intrastate Direct Sales Lateral

- Originates off of an "Interstate" pipeline.
- Begins and ends within the confines of one State.
- Serves a large volume customer which is sole consumer



SMYS



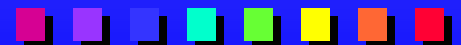
Specified
Minimum Yield
Strength:

Steel Pipe Manufactured according to a
Listed Specification



Distribution Line

A Pipeline other than a Gathering Line
or Transmission Line



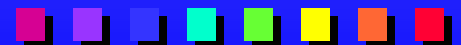
Main

A Distribution Line that serves as a **Common Source** of supply for more than one Service Line



Service Line

"Service line" means a distribution line that transports gas from a common source of supply to an individual customer, to two adjacent or adjoining residential or small commercial customers, or to multiple residential or small commercial customers served through a meter header or manifold.



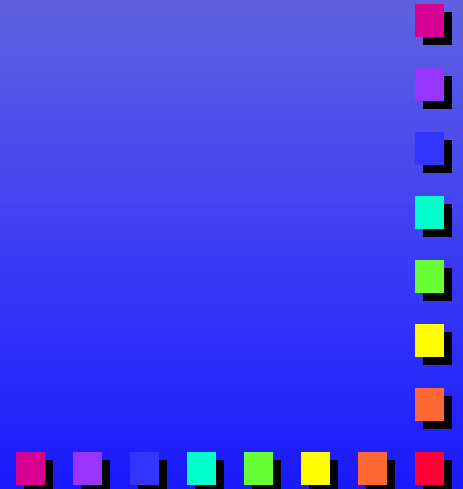
Service Line

A service line ends at the outlet of the customer meter or at the connection to a customer's piping, whichever is further downstream, or at the connection to customer piping if there is no meter.



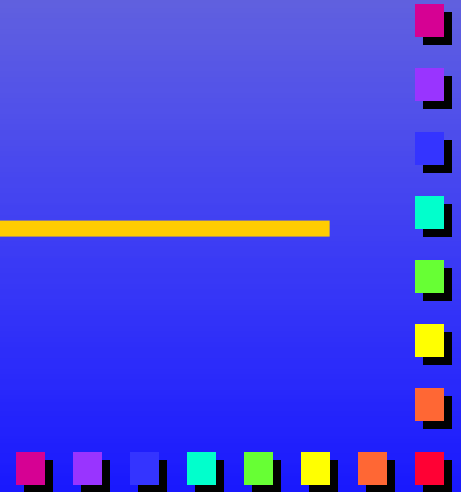
"Customer meter"

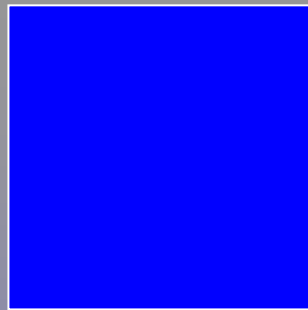
- means the meter that measures the transfer of gas from an operator to a consumer.



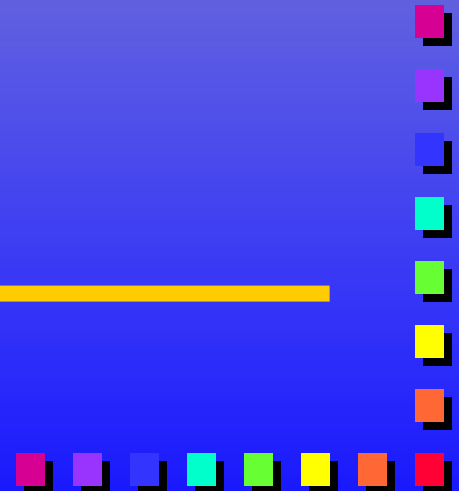


Service Line



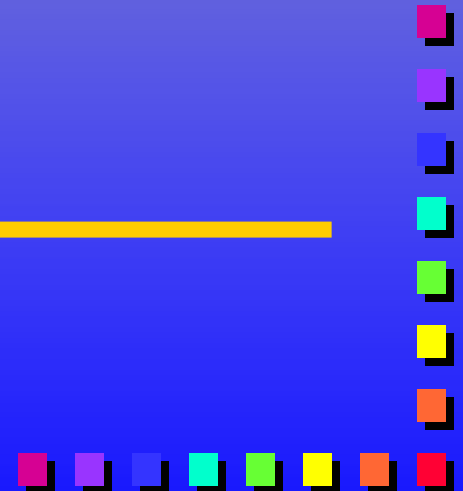


Service Line



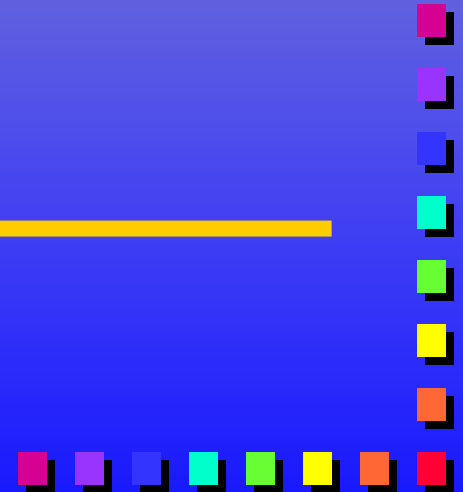


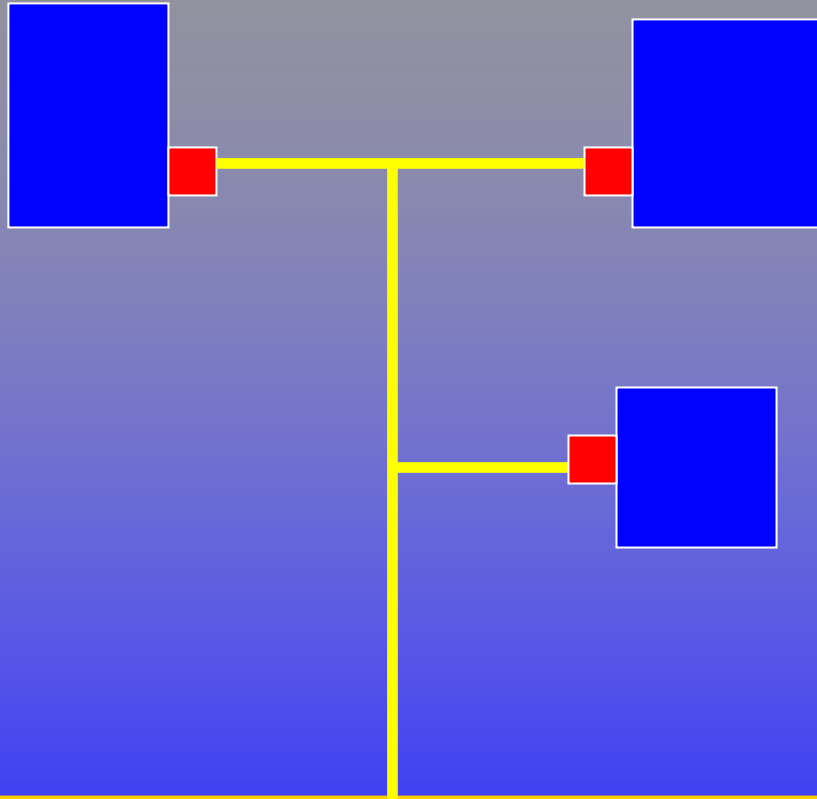
Service Line?



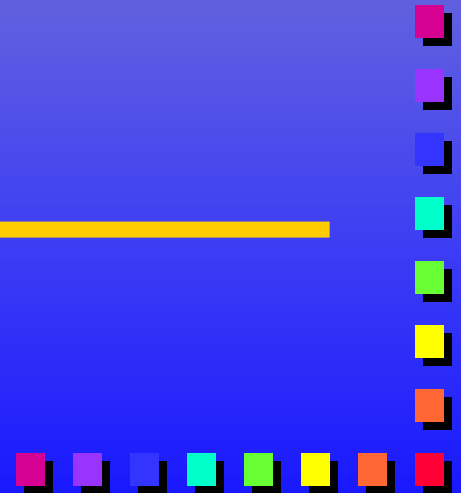


Service Line?



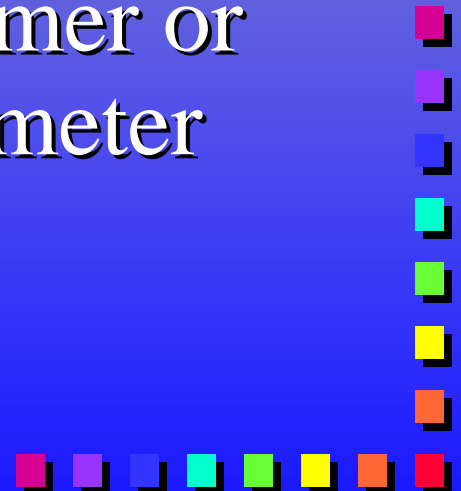


Service Line?



Service Regulator

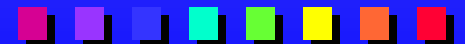
- means the device on a service line that controls the pressure of gas delivered from a higher pressure to the pressure provided to the customer. A service regulator may serve one customer or multiple customers through a meter header or manifold.



High Pressure Distribution System

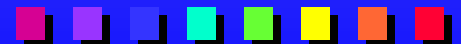


A Distribution system in which gas pressure in the main is higher than the pressure provided to the customer.



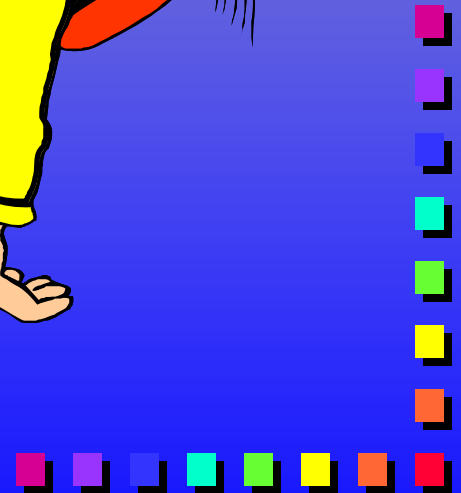
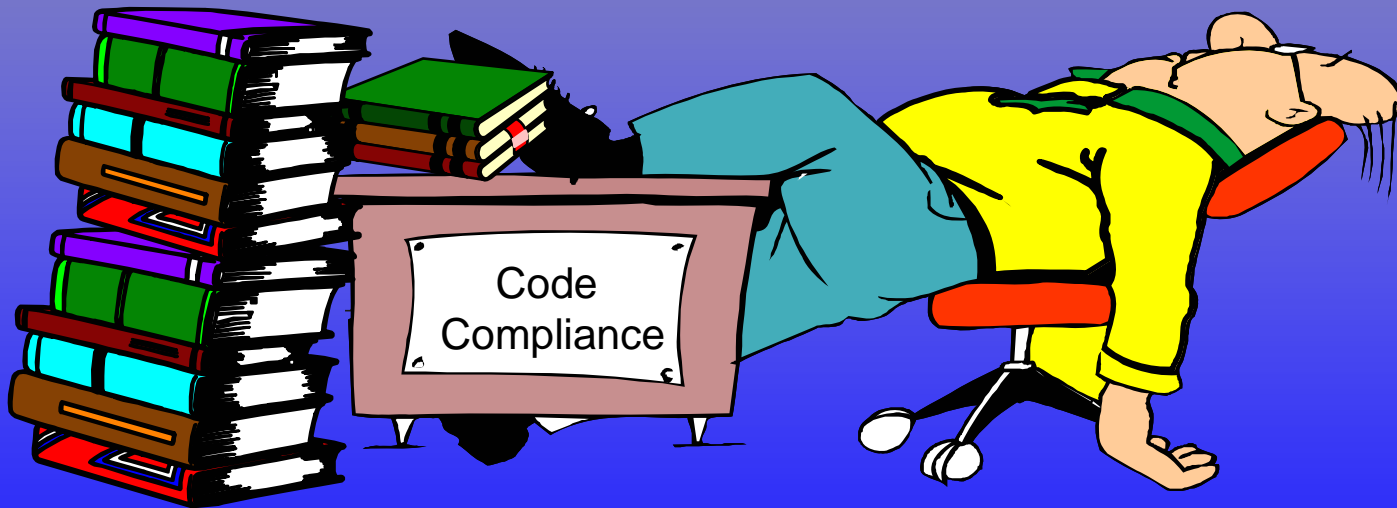
Low Pressure Distribution

Pressure in the main is essentially the same as that delivered to the customer.



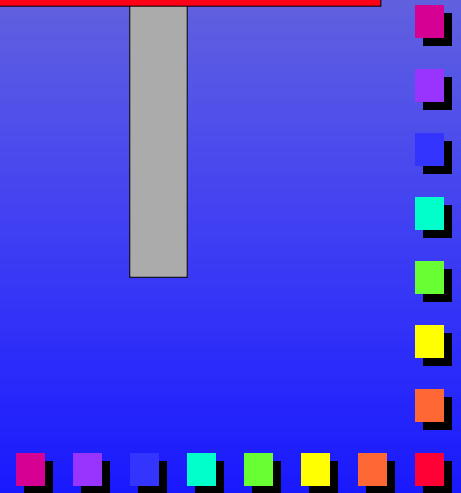
Listed Specification

A pipe specification listed in
Section I of Appendix B of Part 192



Maximum Actual Operating Pressure

The maximum pressure that occurs during normal operations over a period of one year.



Maximum Allowable Operating Pressure (MAOP)

The maximum pressure at which a pipeline or segment of pipeline may be operated under this Part.

